BOUNDARY SCAN DELAY CHAIN FOR CROSS-CHIP DELAY MEASUREMENT

Abstract

The invention relates to the delay measurement functionality of integrated circuits. ~~An object of the invention is to provide a new and improved~~ There is provided an approach for delay measurement of an integrated circuit that is substantially independent of vendors, technology and/or used development tools with a minimum of implementation effort in design time and gate resources. ~~According to the invention, it is proposed to provide~~ There is provided at least one boundary scan cell, each having a storage layer between a scan input port (SI) and a scan output port (SO) constructed to be used within a boundary scan chain of an integrated circuit for boundary scan testability, to analyze each boundary scan cell to identify a redundant state which is used to extend the boundary scan cell by creating an additional local path (BP) between the respective said scan input and scan output ports bypassing the respective storage layer and to implement the scan cell in the integrated circuit by creating said scan chain.